

CLAIM AMENDMENTS

1-9 (Cancelled)

10. (New) An apparatus for detecting fuel pressure from a pressurised fuel volume having a body structure in connection with a combustion engine comprising a resilient element and a piston, which piston comprising a first end being in direct connection with the said volume, and a second end being in connection with a resilient element, and a circuit including a first and a second part and having interfaces outside the apparatus,

in which apparatus the resilient element allows movement of the piston when a sufficient pressure is acting on the first end of the piston while the location of the second end depends on the movement of the piston, and in a certain location of the piston, the apparatus forming a mechanical connection thereby closing the circuit, which can be detected from the interfaces, wherein

the apparatus comprises an upper support of the resilient element for supporting the upper end of the resilient element, a lower support of the resilient element for supporting the lower end of the resilient element and an intermediate part being in connection with the upper support of the resilient element,

the second end of the piston being in connection with an intermediate part being in connection with the upper support of the resilient element transmitting the movement of the piston to the upper support of the resilient element,

a movement restrictor for stopping the movement of the piston towards the resilient element at a certain location, the movement restrictor belonging to the first part of the circuit,

the resilient element, the upper support of the resilient element and the lower support of the resilient element belonging to the second part of the circuit,

and the apparatus additionally comprising insulator parts, which together with the intermediate part insulate the first and the second parts of said circuit from each other and the body structure.

11. (New) An apparatus according to claim 10, wherein the resilient element is a spring or the like.

12. (New) An apparatus according to claim 10, wherein the first part of the circuit includes a first conductor, and the second part of the circuit includes a second conductor.

13. (New) An apparatus according to claim 10, wherein the resilient element is a coil spring and the movement restrictor is a tap comprising a body and a base, with the body being located inside the coil spring and the base of the tap being located outside the coil spring, to which base the first conductor is connected.

14. (New) An apparatus according to claim 10, wherein the resilient element is a coil spring and the movement restrictor consists of a tap-like extension in the upper support, being located inside the coil spring,

and a base being located outside the coil spring on the other side of the lower support in relation to the spring, to which base the first conductor is connected.

15. (New) An apparatus according to claim 10, wherein into the body structure is arranged a first volume for the piston, a second volume for the intermediate part and the second end of the piston, a third volume for the resilient element and the upper and lower supports of the resilient element, the movement restrictor and the insulator parts and a fourth and fifth volume for the said conductors.

16. (New) An apparatus according to claim 10, wherein the insulator parts comprise a plate located between the base of the movement restrictor and the body structure, and a ring located between the base of the movement restrictor and the lower support of the resilient element, to which support the second conductor is connected.

17. (New) An apparatus according to claim 15, wherein the insulator parts and the intermediate part are of ceramic material.

18. (New) An apparatus according to claim 15, wherein the body structure comprises a sixth volume being in connection with the third volume, thus forming a leakage channel for the material, if any, that has leaked out from the volume under pressure.

REMARKS

The above amendments are presented in order to place this application in better condition for examination.

Respectfully submitted,



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